

**DEPARTMENT of ENVIRONMENTAL SERVICES**  
**Water Supply & Pollution Control Division - Biology Bureau**

**LAKE TROPHIC DATA**

**MORPHOMETRIC:**

Lake: SEAVER RESERVOIR	Lake Area (ha):	18.21
Town: HARRISVILLE	Maximum depth (m):	6.1
County: Cheshire	Mean depth (m):	3.2
River Basin: Connecticut	Volume (m <sup>3</sup> ):	576500
Latitude: 42°56'35" N	Relative depth:	1.3
Longitude: 72°07'45" W	Shore configuration:	1.00
Elevation (ft): 1200	Areal water load (m/yr):	31.93
Shore length (m): 1400	Flushing rate (yr <sup>-1</sup> ):	10.10
Watershed area (ha): 1043.5	P retention coeff.:	0.42
% watershed ponded: 17.3	Lake type:	artificial

**BIOLOGICAL:**

**22 January 1991**

**6 September 1990**

DOM. PHYTOPLANKTON (% TOTAL)	#1	DINOBRYON 40%	MALLOMONAS 85%
	#2	ASTERIONELLA 35%	SYNURA 15%
	#3	TABELLARIA 20%	
PHYTOPLANKTON ABUNDANCE (cells/mL)			475.0
CHLOROPHYLL-A (µg/L)			3.56
DOM. ZOOPLANKTON (% TOTAL)	#1	SYNCHAETA 84%	KERATELLA 35%
	#2	KERATELLA 7%	KELICOTTIA 26%
	#3	KELICOTTIA 6%	COLLOTHECA 22%
ROTIFERS/LITER		647	150
MICROCRUSTACEA/LITER		13	28
ZOOPLANKTON ABUNDANCE (#/L)		660	178
VASCULAR PLANT ABUNDANCE			Common
SECCHI DISK TRANSPARENCY (m)			4.8
BOTTOM DISSOLVED OXYGEN (mg/L)		12.0	6.2
BACTERIA (fecal col., #/100 ml) #1			< 1
	#2		
	#3		

**SUMMER THERMAL STRATIFICATION:**

not stratified

Depth of thermocline (m): None  
Hypolimnion volume (m<sup>3</sup>) : None  
Anoxic volume (m<sup>3</sup>) : None

**CHEMICAL:**

Lake: SEAYER RESERVOIR  
Town: HARRISVILLE

	22 January 1991		6 September 1990		
DEPTH (m)	2.0		2.0		4.0
pH (units)	5.6		6.2		6.2
A.N.C. (Alkalinity)	1.6		1.3		1.3
NITRATE NITROGEN	0.11		< 0.05		< 0.05
TOTAL KJELDAHL NITROGEN	0.16		0.12		0.12
TOTAL PHOSPHORUS	0.010		0.011		0.010
CONDUCTIVITY ( $\mu$ mhos/cm)	57.9		38.5		37.2
APPARENT COLOR (cpu)	27		19		20
MAGNESIUM			0.57		
CALCIUM			1.1		
SODIUM			3.8		
POTASSIUM			0.60		
CHLORIDE	8		5		5
SULFATE	7		5		5
TN : TP	27		11		12
CALCITE SATURATION INDEX			5.0		

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 1990**

D.O. S.D. PLANT CHL TOTAL CLASS

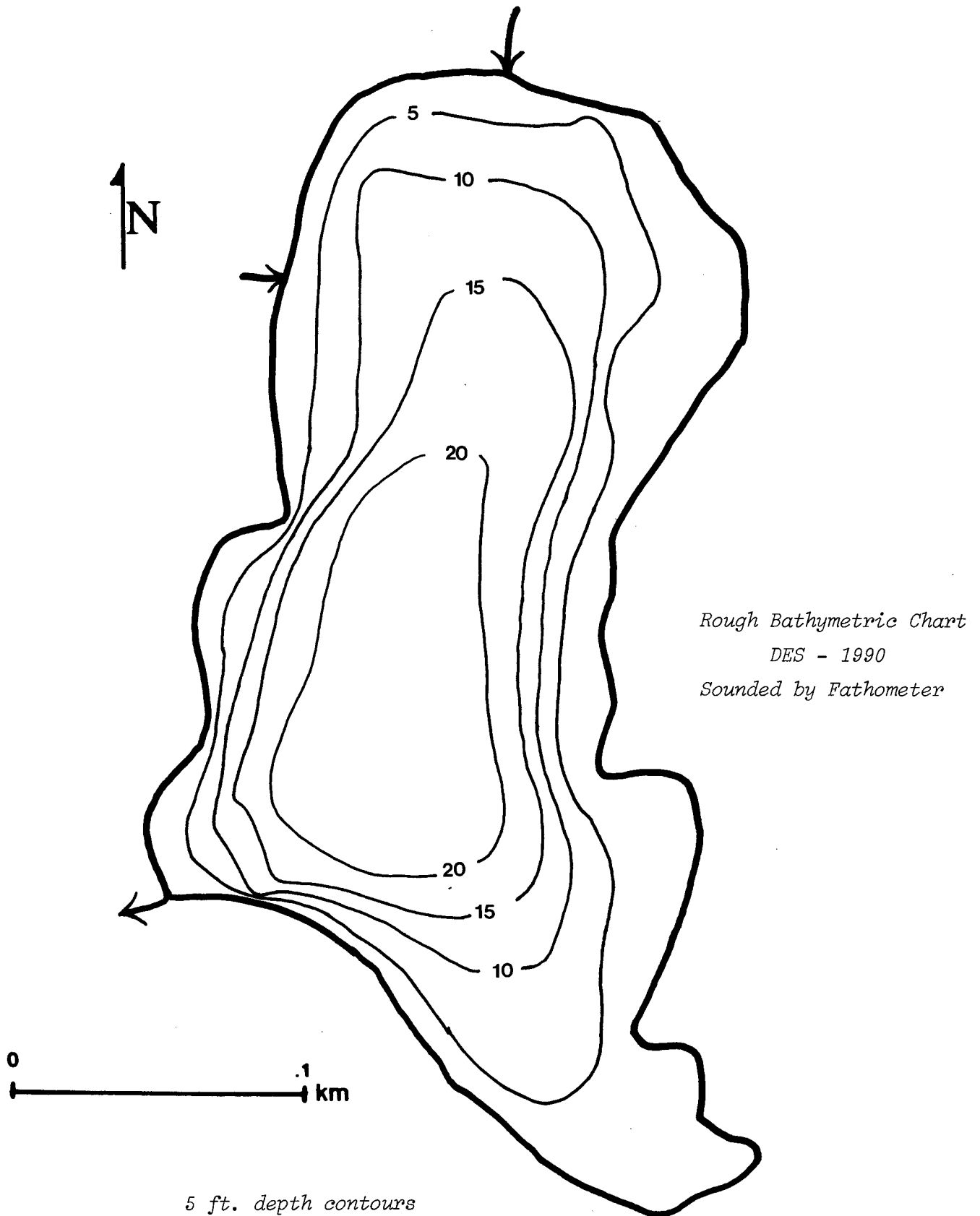
**	2	3	0	5	Meso.
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**COMMENTS:**

1. Small boat launch; no parking except along side the road; no restrictions on the use of the site.
2. Also known as Unnamed Pond #3.
3. This reservoir has an earthen dam; water exits the reservoir through a stand pipe.
4. No cottages were located on the reservoir.
5. Merismopedia (50%) was the dominant genus of wholewater phytoplankton.

# SEAVER RESERVOIR

HARRISVILLE



LAKE: SEAVER RESERVOIR  
DATE: 09/06/90

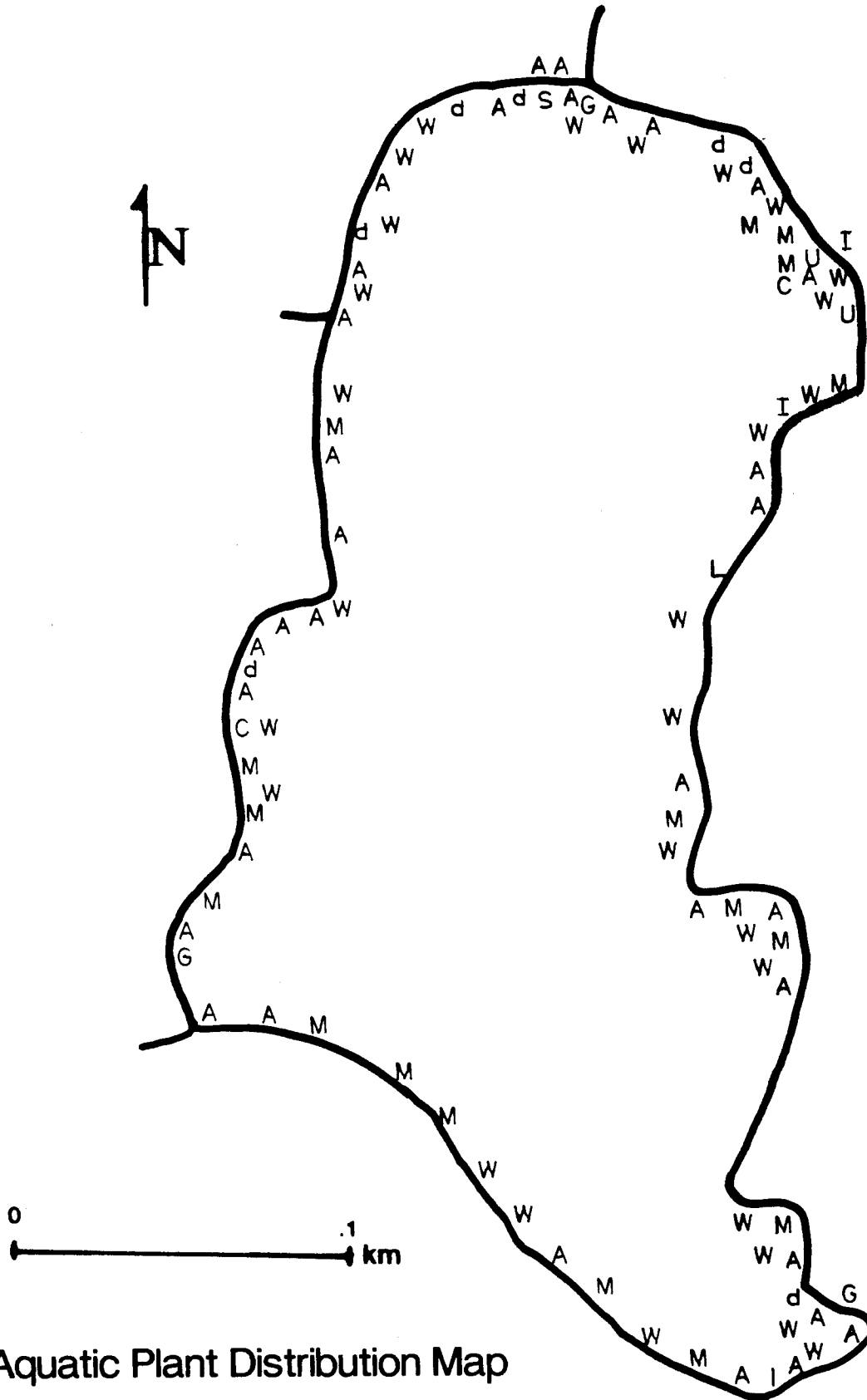
**WEATHER: MOSTLY OVERCAST; CALM-MID 70'S**

SECCHI DISK (m): 4.8  
BOTTOM DEPTH (m): 6.0  
TIME: 1230

**\*Dissolved oxygen values are in mg/L**

# SEAVER RESERVOIR

## HARRISVILLE



## Aquatic Plant Distribution Map

[illegible]